

# Z (Zhixiong) Chen, Ph.D.

(Short Version)



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## EDUCATION

Ph.D., MATH, Univ. of Pittsburgh, Pittsburgh, 09/1997.

M.S., CS, Univ. of Pittsburgh, Pittsburgh, 09/1997.

M.A., MATH, Shanghai Jiao Tong Univ., Shanghai, 12/1988.

B.A., APPLIED MATH, Shanghai Jiao Tong Univ., Shanghai, 07/1986.

Enrolled in Tepper Business Sch, Carnegie Mellon Univ., 2001,

## APPOINTMENT

### Academic Appointments

Assistant Professor, Shanghai Jiao Tong Univ., 1989-1992.

Research Staff, IBM T J Watson Research Center / IBM Pittsburgh Lab, 1997-2003.

Associate Professor, Mercy College, 2003-2008.

Professor, Mercy College, 2008-present.

### Administrative Appointments

Tech Leader, Crypto Core Delivery in Edge Server, IBM Research, 1999 -2001.

Program Director, BS, MS and BS+MS in Cybersecurity, Mercy College, 2008-2013.

Chair, Dept. of MATH & CS, Mercy College, 2013-2019.

Director, Cyber Edu Center, Mercy College, 2019-present.

## SCHOLAR EXPERIENCE

### Memberships and Qualifications

CISSP (Certified Information System Security Professional) from ISC<sup>2</sup>, 2010– Present.

Senior member, Institute of Electrical and Electronics Engineers (IEEE), 2007– Present.

Senior Member, Association of Computing Machine (ACM), 2008-Present.

## Grants (LIFO)

1. PI, Department of Defense (DoD), IASP (H98230-18-1-0304), 09/2018 – 09/2019, \$80,553.00.
2. Member, National Science Foundation (NSF), Big Data Northeast Spokes, the Inquiry Group Planning Grant, 1636736, 08/2016, \$84,748.00.
3. Co-Dir for Mercy College, National Science Foundation (NSF), BD Hubs NORTHEAST, 250 personnel over 100 organizations, across 9 states, 1550284, 09/2015, \$2,129,350.00.
4. PI, Department of Defense (DoD), IASP (H98230-12-1-0433), June 2012 – June 2013, \$26,399.00.
5. PI, National Institute of Health (NIH), ERADA 642042-3945, 2004-2005, \$5998.
6. PI, Mercy Summer Research Grant (Facultu-Student), \$8800.00
7. Faculty Development Grants, 2005 – 2020, 14 awards, fund from \$2000-\$5000
8. Teaching Innovation Grants, 2015-2020, Three awards, fund from \$1800 to \$4200

## Collaboration

- Visiting Scholar, CAIP, Rutgers University, June 1, 2004 – August 30, 2004.
- IACBP Fellow, Information Networking Institute, CMU, July 11, 2011 – July 22, 2011.
- IBM Skills Academy, June, 2019 - present
- Fudan Fellow, Fudan University, September 1, 2019 – November 30, 2019.

## Publications and invited talks

- ~50 Peer reviewed journal and conference papers on Mathematical Modeling and Information Assurance. Cited 495 <https://scholar.google.com/citations?user=hVDIMPMAAAAJ&hl=en>

## ADMINISTRATIVE EXPERIENCE

1. Designed, developed, and refined four new degree programs (B.S., M.S. and B.S.+M.S. in Cybersecurity and M.S. in Computer Science) and one center (Cybersecurity Education Center)
2. Oversaw and closed loops on assessment by the middle state accreditation and internal five-year program review
3. Student Centered Service
4. Faculty Development and Success
5. Student Marketability and Recruitment
6. Academic Shared Governance
7. Lead technology Lab innovation
8. STEM Advisory Board
9. Provided leadership and support to develop Institutional Research Grants
10. Support for increasing minority in mathematics

## **TEACHING EXPERIENCE**

1. Developed and taught the following courses in Cybersecurity:  
*Social Media: Enabling Technology and Security; IT Security Auditing and Compliance  
Digital Forensics; Data Mining and Knowledge Discovery; Cryptography; Cryptanalysis  
Research Methodology and Capstone Project; Special Topics: Services Computing*
2. Developed and taught the following courses in Computer Science:  
*Foundation of Computation I/II (Python and Java); Computer Network I/II;  
Web Architecture and Security; Software Engineering;  
System Analysis and Design; Healthcare Analytics and Appl Development  
Artificial Intelligent*
3. Developed and taught the following courses in Mathematics:  
*Statistics; College Algebra in Smart Math Format (flipped class)  
Discrete Structure; Calculus I/II/III; Number Theory; Linear Algebra;  
Numerical Analysis using Matlab; Differential Equations;  
Mathematical Modeling (Capstone Project)*
4. Offered Collaborative Teaching

## **INDUSTRIAL EXPERIENCE**

1. IBM JITM (Just in Time) project
2. IBM EPP Project
3. IBM WebSphere Edge Server
4. Microsoft IBM CORBA and COM+ Transaction server communication pilot project
5. IBM Mainframe CICS Client Application automation project
6. IBM Trained Courses and Certificates

## **SERVICE EXPERIENCE**

1. Served as a panelist of the NSF CISE Cross-Cutting CiC TC Panel Review, Arlington, VA, September 2010.
2. Served as a member of the College Expert Group to New York State Cyber Security Advisory Board, Created by Governor Andrew Cuomo, 05/2013.
3. Got various service certificates for the IEEE Services Congress from 2010 to 2017: Services Contest Chairs, Education Summit Chairs, Session Chairs, International Service Chairs, etc.
4. Serving as the program chair for the 2020 International Conference on Blockchain (ICBC2020).
5. Organized a symposium of Math Education Redesign for Student Engagement and Success, on Nov 17, 2017, at New York.
6. Served various editorial boards and reviewers such as IEEE Access, IEEE Network Magazine, International Journal of Web Services, etc.